

Assignment No. 2

Server.py

```
import Pyro4
```

```
# Exposing this class for remote access
```

```
@Pyro4.expose
```

```
class StringConcatenation:
```

```
    def concatenate(self, str1, str2):
```

```
        return str1 + str2
```

```
def main():
```

```
    daemon = Pyro4.Daemon() # Create a Pyro daemon
```

```
    ns = Pyro4.locateNS() # Locate the Pyro name server
```

```
    # Register the class in the Pyro4 naming service
```

```
    uri = daemon.register(StringConcatenation)
```

```
    ns.register("string.concat", uri) # Register with a name
```

```
    print("String Concatenation Server is running...")
```

```
    daemon.requestLoop() # Keep the server running
```

```
if __name__ == "__main__":
```

```
    main()
```

Client.py

import Pyro4

Locate the remote object

server = Pyro4.Proxy("PYRONAME:string.concat") # Using the registered name

Take user input

str1 = input("Enter first string: ")

str2 = input("Enter second string: ")

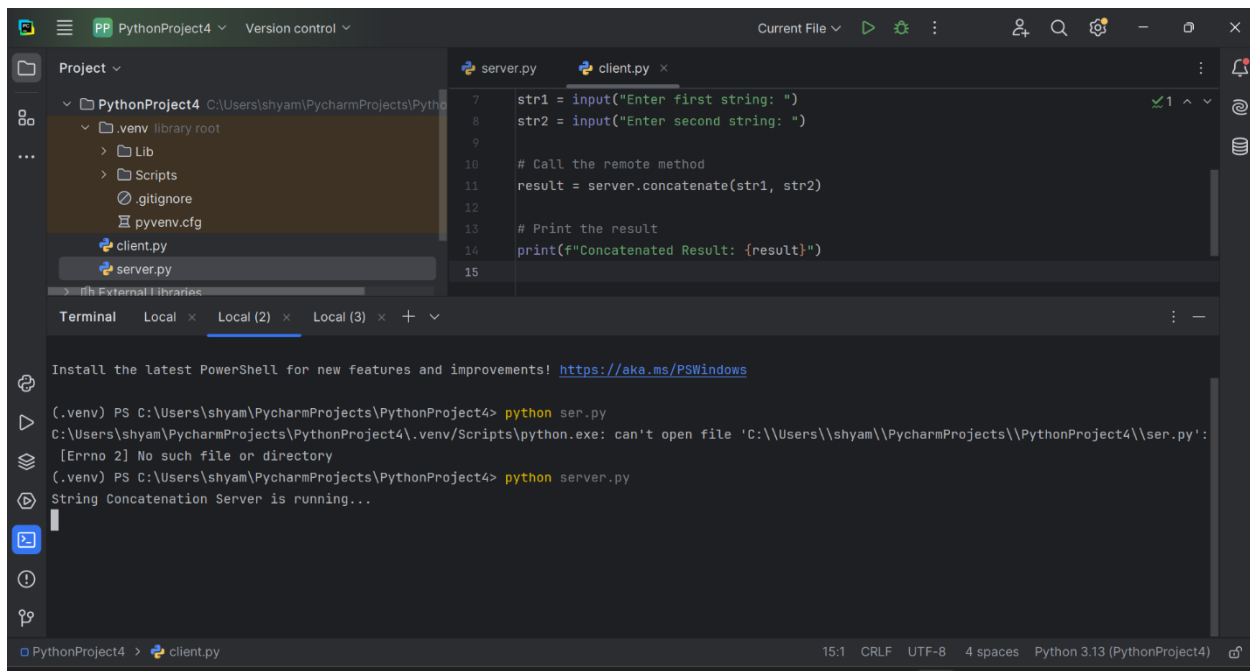
Call the remote method

result = server.concatenate(str1, str2)

Print the result

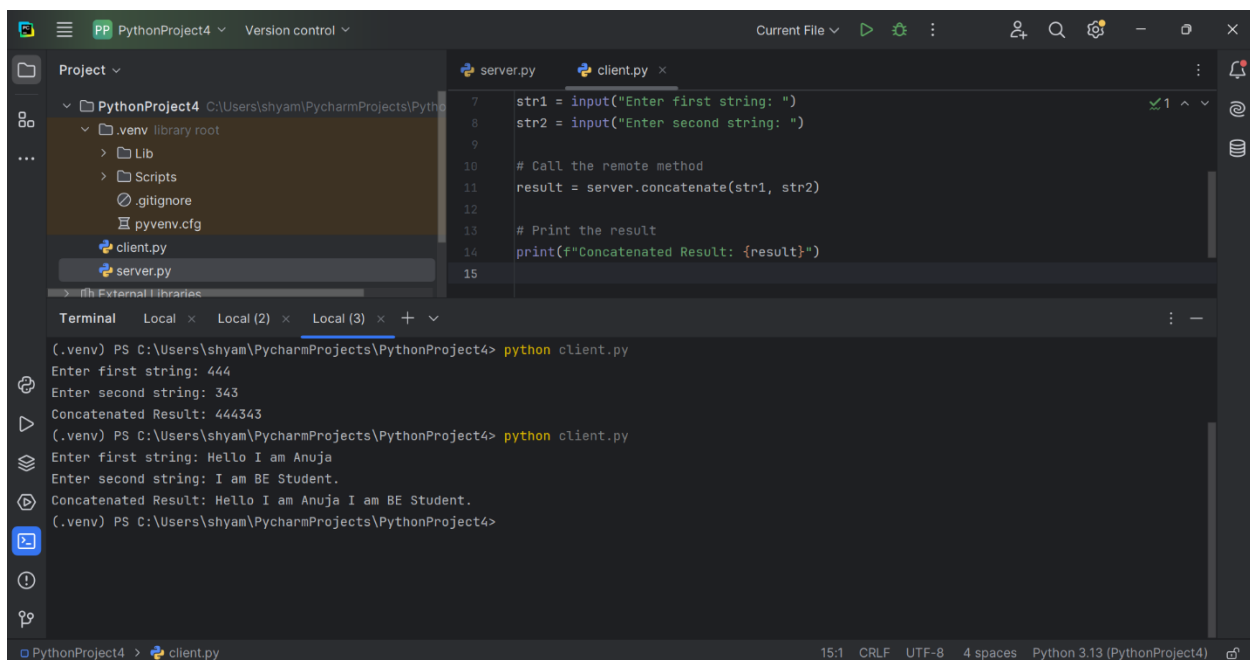
print(f"Concatenated Result: {result}")

OutPut:



```
server.py  client.py x
7  str1 = input("Enter first string: ")
8  str2 = input("Enter second string: ")
9
10 # Call the remote method
11 result = server.concatenate(str1, str2)
12
13 # Print the result
14 print(f"Concatenated Result: {result}")
15

Terminal  Local x Local (2) x Local (3) x + v
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
(.venv) PS C:\Users\shyam\PycharmProjects\PythonProject4> python ser.py
C:\Users\shyam\PycharmProjects\PythonProject4\.venv\Scripts\python.exe: can't open file 'C:\\Users\\shyam\\PycharmProjects\\PythonProject4\\ser.py':
[Errno 2] No such file or directory
(.venv) PS C:\Users\shyam\PycharmProjects\PythonProject4> python server.py
String Concatenation Server is running..
```



```
server.py  client.py x
7  str1 = input("Enter first string: ")
8  str2 = input("Enter second string: ")
9
10 # Call the remote method
11 result = server.concatenate(str1, str2)
12
13 # Print the result
14 print(f"Concatenated Result: {result}")
15

Terminal  Local x Local (2) x Local (3) x + v
(.venv) PS C:\Users\shyam\PycharmProjects\PythonProject4> python client.py
Enter first string: 444
Enter second string: 343
Concatenated Result: 444343
(.venv) PS C:\Users\shyam\PycharmProjects\PythonProject4> python client.py
Enter first string: Hello I am Anuja
Enter second string: I am BE Student.
Concatenated Result: Hello I am Anuja I am BE Student.
(.venv) PS C:\Users\shyam\PycharmProjects\PythonProject4>
```